```
RRRRRRRRRRR      UUU          UUU  NNN          NNN     000000000     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRRR     UUU          UUU  NNN          NNN     000000000     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRRRRRRRRRRR     UUU          UUU  NNN          NNN     000000000     FFFFFFFFFFFFFFF  FFFFFFFFFFFFFFF
RRR          RRR UUU          UUU  NNN          NNN  000         000  FFF              FFF
RRR          RRR UUU          UUU  NNN          NNN  000         000  FFF              FFF
RRR          RRR UUU          UUU  NNN          NNN  000         000  FFF              FFF
RRR          RRR UUU          UUU  NNNNNN       NNN  000         000  FFF              FFF
RRR          RRR UUU          UUU  NNNNNN       NNN  000         000  FFF              FFF
RRR          RRR UUU          UUU  NNNNNN       NNN  000         000  FFF              FFF
RRRRRRRRRRRR     UUU          UUU  NNN  NNN     NNN  000         000  FFFFFFFFFFFF     FFFFFFFFFFFF
RRRRRRRRRRRR     UUU          UUU  NNN  NNN     NNN  000         000  FFFFFFFFFFFF     FFFFFFFFFFFF
RRRRRRRRRRRR     UUU          UUU  NNN  NNN     NNN  000         000  FFFFFFFFFFFF     FFFFFFFFFFFF
RRR    RRR       UUU          UUU  NNN       NNNNNN  000         000  FFF              FFF
RRR    RRR       UUU          UUU  NNN       NNNNNN  000         000  FFF              FFF
RRR    RRR       UUU          UUU  NNN       NNNNNN  000         000  FFF              FFF
RRR       RRR    UUU          UUU  NNN          NNN  000         000  FFF              FFF
RRR       RRR    UUU          UUU  NNN          NNN  000         000  FFF              FFF
RRR       RRR    UUU          UUU  NNN          NNN  000         000  FFF              FFF
RRR          RRR UUUUUUUUUUUUUUU  NNN          NNN     000000000     FFF              FFF
RRR          RRR UUUUUUUUUUUUUUU  NNN          NNN     000000000     FFF              FFF
RRR          RRR UUUUUUUUUUUUUUU  NNN          NNN     000000000     FFF              FFF
RRR          RRR UUUUUUUUUUUUUUU  NNN          NNN     000000000     FFF              FFF
RRR          RRR UUUUUUUUUUUUUUU  NNN          NNN     000000000     FFF              FFF
```

```
_$2

Sym
---
NDX
NDX
NUM
NUM
OPE
OUT
PAC
PAC
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PAC
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PAC
PAD
PAG
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PAG
PAG
PAG
PAG
PER
PUT
RCO
RIN

RLI
RNO
RNO
RTY
SAV
STR
STR
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```

FILEID**NOTE

```
NN      NN    000000    TTTTTTTTTT  EEEEEEEEEE
NN      NN    000000    TTTTTTTTTT  EEEEEEEEEE
NN      NN  00      00      TT      EE
NN      NN  00      00      TT      EE
NNNN    NN  00      00      TT      EE
NNNN    NN  00      00      TT      EE
NN  NN  NN  00      00      TT      EEEEEEEE
NN  NN  NN  00      00      TT      EEEEEEEE
NN    NNNN  00      00      TT      EE
NN    NNNN  00      00      TT      EE
NN      NN  00      00      TT      EE                ....
NN      NN  00      00      TT      EE                ....
NN      NN    000000        TT      EEEEEEEEEE        ....
NN      NN    000000        TT      EEEEEEEEEE        ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
;     1          0001  0 MODULE NOTE (                                        !
;     2          0002  0                 IDENT = 'V04-000'
;     3        P 0003  0 %BLISS32[,
;     4        P 0004  0         ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE,NONEXTERNAL=LONG_RELATIVE)
;     5          0005  0         ]
;     6          0006  0                 ) =
;     7          0007  1 BEGIN
;     8          0008  1
;     9          0009  1 !
;    10          0010  1 !*************************************************************************
;    11          0011  1 !*                                                                       *
;    12          0012  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                              *
;    13          0013  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                *
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;    21          0021  1 !*  TRANSFERRED.                                                          *
;    22          0022  1 !*                                                                       *
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;    28          0028  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.               *
;    29          0029  1 !*                                                                       *
;    30          0030  1 !*                                                                       *
;    31          0031  1 !*************************************************************************
;    32          0032  1 !
;    33          0033  1
;    34          0034  1 !++
;    35          0035  1 ! FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
;    36          0036  1 !
;    37          0037  1 ! ABSTRACT: Processes the .NOTE command
;    38          0038  1 !
;    39          0039  1 !
;    40          0040  1 ! ENVIRONMENT: Transportable
;    41          0041  1 !
;    42          0042  1 ! AUTHOR: R.W.Friday     CREATION DATE: June, 1978
;    43          0043  1 !
```

```
;    45          0044  1 %SBTTL 'Revision History'
;    46          0045  1 !
;    47          0046  1 ! MODIFIED BY:
;    48          0047  1 !
;    49          0048  1 !       006     KAD00006        Keith Dawson    9-Jun-1983
;    50          0049  1 !               Fix .NOTE margins to be more sensible. This is motivated by
;    51          0050  1 !                 the fact that notes come out looking centered on .PS, instead
;    52          0051  1 !                 of on .LM-.RM as desired. Also, changed the number of
;    53          0052  1 !                 lines before a note to 1 from 2.
;    54          0053  1 !
;    55          0054  1 !       005     KAD00005        Keith Dawson    07-Mar-1983
;    56          0055  1 !               Global edit of all modules. Updated module names, idents,
;    57          0056  1 !               copyright dates. Changed require files to BLISS library.
;    58          0057  1 !
;    59          0058  1 !--
```

```
;    61          0059  1 %SBTTL 'Module Level Declarations'
;    62          0060  1 !
;    63          0061  1 ! TABLE OF CONTENTS:
;    64          0062  1 !
;    65          0063  1 !
;    66          0064  1 ! INCLUDE FILES:
;    67          0065  1 !
;    68          0066  1
;    69          0067  1 LIBRARY 'NXPORT:XPORT';                 ! XPORT Library
;    70          0068  1 REQUIRE 'REQ:RNODEF';                   ! RUNOFF variant definitions
;    71          0199  1
;    72        U 0200  1 %IF DSRPLUS %THEN
;    73        U 0201  1 LIBRARY 'REQ:DPLLIB';                 ! DSRPLUS BLISS Library
;    74          0202  1 %ELSE
;    75          0203  1 LIBRARY 'REQ:DSRLIB';                   ! DSR BLISS Library
;    76          0204  1 %FI
;    77          0205  1
;    78          0206  1 !
;    79          0207  1 ! MACROS:
;    80          0208  1 !
;    81          0209  1 !
;    82          0210  1 ! EQUATED SYMBOLS:
;    83          0211  1 !
;    84          0212  1
;    85          0213  1 LITERAL
;    86          0214  1     skip_before_note = 1,       !Spacing before "NOTE"
;    87          0215  1                                 ! ... changed from 2 by KAD, 6-10-1983.
;    88          0216  1     skip_after_note = 1;        !Spacing after "NOTE"
;    89          0217  1 !
;    90          0218  1 ! OWN STORAGE:
;    91          0219  1 !
;    92          0220  1 !
;    93          0221  1 ! EXTERNAL REFERENCES:
;    94          0222  1 !
;    95          0223  1
;    96          0224  1 EXTERNAL
;    97          0225  1     gca : gca_definition,
;    98          0226  1     pdt : ref pdt_definition,
;    99          0227  1     sca : sca_definition;
;   100          0228  1
;   101          0229  1 !
;   102          0230  1
;   103          0231  1 EXTERNAL ROUTINE
;   104          0232  1     centxt,
;   105          0233  1     gcskip,
;   106          0234  1     getlin,
;   107          0235  1     gtpc,
;   108          0236  1     stkfrm;
;   109          0237  1
```

```
;   111     0238  1 GLOBAL ROUTINE NOTE (HANDLER_CODE) : NOVALUE =
;   112     0239  1
;   113     0240  1 !++
;   114     0241  1 ! FUNCTIONAL DESCRIPTION:
;   115     0242  1 !
;   116     0243  1 !       See the ABSTRACT, above.
;   117     0244  1 !
;   118     0245  1 ! FORMAL PARAMETERS:
;   119     0246  1 !
;   120     0247  1 !       HANDLER_CODE indicates which command is to be processed.
;   121     0248  1 !
;   122     0249  1 ! IMPLICIT INPUTS:      None
;   123     0250  1 !
;   124     0251  1 ! IMPLICIT OUTPUTS:     None
;   125     0252  1 !
;   126     0253  1 ! ROUTINE VALUE:
;   127     0254  1 ! COMPLETION CODES:     None
;   128     0255  1 !
;   129     0256  1 ! SIDE EFFECTS: None
;   130     0257  1 !
;   131     0258  1 !--
;   132     0259  2     BEGIN
;   133     0260  2     LOCAL
;   134     0261  2         margin_adjust,          !How much to adjust the margins.
;   135     0262  2         skip;
;   136     0263  2
;   137     0264  2     IF NOT stkfrm (.handler_code)
;   138     0265  2     THEN
;   139     0266  2         RETURN;                             !Quit if stack overflow
;   140     0267  2
;   141     0268  2     skip = skip_before_note * .sca_spacing;
;   142     0269  2     gtpc (.skip + (skip_after_note + .pdt_tp + 1)*.sca_spacing);
;   143     0270  2     gcskip (max (0, .skip - (.sca_spacing - 1)));
;   144     0271  2     !Set up formatting definitions
;   145     0272  2     sca_fill = true;
;   146     0273  2     sca_justify = .gca_autojust or .sca_justify;        !Turn on justification unless user has said .NAJ.
;   147     0274  2     sca_crock = .sca_justify;
;   148     0275  2 !
;   149     0276  2 ! Margin adjustment.
;   150     0277  2
;   151     0278  2     IF (.sca_rm - .sca_lm) GTR 60
;   152     0279  2     THEN
;   153     0280  2         margin_adjust = .gca_note_prim  ! (8)
;   154     0281  2     ELSE
;   155     0282  2         margin_adjust = .gca_note_alt;  ! (4)
;   156     0283  2
;   157     0284  2     !Defensive margin computation in case margins are very restrictive
;   158     0285  2
;   159     0286  2     IF (.sca_lm + .margin_adjust) LSS .sca_rm
;   160     0287  2     THEN
;   161     0288  2         sca_lm = .sca_lm + .margin_adjust;
;   162     0289  2
;   163     0290  2     IF (.sca_rm - .margin_adjust) GTR .sca_lm
;   164     0291  2     THEN
;   165     0292  2         sca_rm = .sca_rm - .margin_adjust;
;   166     0293  2
;   167     0294  2 ! End of margin-adjustment computations.
```

```
;  168          0295  2
;  169          0296  2 !Determine if text was given on the .NOTE command.
;  170          0297  2 !
;  171          0298  2     IF NOT centxt (ch$ptr (uplit ('NOTE')), 4)
;  172          0299  2     THEN
;  173          0300  2     !Text after ".NOTE".  Fetch and output text centered.
;  174          0301  2         getlin (true, false, 0, true);
;  175          0302  2
;  176          0303  2     !Prepare for the text that will probably come.
;  177          0304  2     gcskip (.sca_spacing);
;  178          0305  2
;  179          0306  1     END;                                    !End of NOTE


                                                .TITLE  NOTE
                                                .IDENT  \V04-000\

                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

                                45  54  4F  4E  00000 P.AAA:  .ASCII  \NOTE\                                   ;

                                                .EXTRN  GCA, PDT, SCA, CENTXT
                                                .EXTRN  GCSKIP, GETLIN, GTPC
                                                .EXTRN  STKFRM

                                                .PSECT  $CODE$,NOWRT,2

                                   003C 00000           .ENTRY  NOTE, Save R2,R3,R4,R5                          ; 0238
                          55 00000000G  EF   9E 00002   MOVAB   GCSKIP, R5                                      ;
                          54 00000000G  EF   9E 00009   MOVAB   SCA+124, R4                                     ;
                                   04   AC   DD 00010   PUSHL   HANDLER_CODE                                    ; 0264
                00000000G EF           01   FB 00013   CALLS   #1, STKFRM                                     ;
                          01           50   E8 0001A   BLBS    R0, 1$                                         ;
                                       04   04 0001D   RET                                                    ;
                          52        00   B4   D0 0001E 1$:    MOVL    @SCA+124, SKIP                         ; 0268
                          50 00000000G   EF   D0 00022   MOVL    PDT, R0                                        ; 0269
          50        08    A0           02   C1 00029   ADDL3   #2, 8(R0), R0                                  ;
                          50        00   B4   C4 0002E   MULL2   @SCA+124, R0                                  ;
                                  6042   9F   00032   PUSHAB  (R0)[SKIP]                                       ;
                00000000G EF           01   FB 00035   CALLS   #1, GTPC                                       ;
                          52        00   B4   C2 0003C   SUBL2   @SCA+124, R2                                  ; 0270
                                       52   D6 00040   INCL    R2                                             ;
                                       52   DD 00042   PUSHL   R2                                             ;
                                       02   18 00044   BGEQ    2$                                             ;
                                       6E   D4 00046   CLRL    (SP)                                           ;
                          65           01   FB 00048 2$:    CALLS   #1, GCSKIP                                 ;
                    EC    B4           01   D0 0004B   MOVL    #1, @SCA+104                                   ; 0272
                    E8    B4 00000000G   FF   C8 0004F   BISL2   @GCA+16, @SCA+100                            ; 0273
                    F4    B4        E8   B4   D0 00057   MOVL    @SCA+100, @SCA+112                             ; 0274
                          51        FC   B4   D0 0C05C   MOVL    @SCA+120, R1                                   ; 0278
                          52        F8   A4   D0 00060   MOVL    SCA+116, R2                                    ;
          50              62           3C   C1 00064   ADDL3   #60, (R2), R0                                  ;
                          50           51   D1 00068   CMPL    R1, R0                                         ;
                                       09   15 0006B   BLEQ    3$                                             ;
                          50 00000000G   EF   D0 0006D   MOVL    GCA+148, MARGIN_ADJUST                         ; 0280
                                       07   11 00074   BRB     4$                                             ;
                          50 00000000G   EF   D0 00076 3$:    MOVL    GCA+152, MARGIN_ADJUST                 ; 0282
```

```
                53              62              50  C1 0007D 4$:     ADDL3   MARGIN_ADJUST, (R2), R3                 ; 0286
                                51              53  D1 00081         CMPL    R3, R1                                  ;
                                                03  18 00084         BGEQ    5$                                      ;
                                62              50  C0 00086         ADDL2   MARGIN_ADJUST, (R2)                     ; 0288
                                51              50  C2 00089 5$:     SUBL2   MARGIN_ADJUST, R1                       ; 0290
                                62              51  D1 0008C         CMPL    R1, (R2)                                ;
                                                04  15 0008F         BLEQ    6$                                      ;
                            FC  B4              50  C2 00091         SUBL2   MARGIN_ADJUST, @SCA+120                 ; 0292
                                                04  DD 00095 6$:     PUSHL   #4                                      ; 0298
                                    00000000'   EF  9F 00097         PUSHAB  P.AAA                                   ;
                    00000000G   EF              02  FB 0009D         CALLS   #2, CENTXT                              ;
                                0D              50  E8 000A4         BLBS    R0, 7$                                  ;
                                                01  DD 000A7         PUSHL   #1                                      ; 0301
                                                7E  7C 000A9         CLRQ    -(SP)                                   ;
                                                01  DD 000AB         PUSHL   #1                                      ;
                    00000000G   EF              04  FB 000AD         CALLS   #4, GETLIN                              ;
                                        00      B4  DD 000B4 7$:     PUSHL   @SCA+124                                ; 0304
                                65              01  FB 000B7         CALLS   #1, GCSKIP                              ;
                                                    04 000BA         RET                                             ; 0306

; Routine Size:  187 bytes,    Routine Base:  $CODE$ + 0000

;  180          0307  1
;  181          0308  1 END                                     !End of module
;  182          0309  0 ELUDOM



;                                   PSECT SUMMARY
;
;      Name                     Bytes                          Attributes
;
; $PLIT$                           4  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
; $CODE$                         187  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                                 Library Statistics
;                                          -------- Symbols --------      Pages       Processing
;      File                                Total    Loaded   Percent      Mapped      Time
;
; _$255$DUA28:[SYSLIB]XPORT.L32;1           590         0         0         252       00:00.2
; _$255$DUA28:[RUNOFF.SRC]DSRLIB.L32;1     1248        18         1          86       00:00.3



;                                 COMMAND QUALIFIERS
```

```
;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:NOTE/OBJ=OBJ$:NOTE MSRC$:NOTE/UPDATE=(ENH$:NOTE)

; Size:         187 code + 4 data bytes
; Run Time:       00:05.0
; Elapsed Time:   00:12.7
; Lines/CPU Min:   3685
; Lexemes/CPU-Min: 14922
; Memory Used:  56 pages
; Compilation Complete
```

NEWPAG
LIS

NODOPX
LIS

OFT
LIS

OUTTXT
LIS

NDXVRS
LIS

NOTE
LIS

OUTLIN
LIS

NM
LIS

PACK
LIS

OUTXHR
LIS

NDXXTN
LIS

OUTCHA
LIS

OUTHDR
LIS